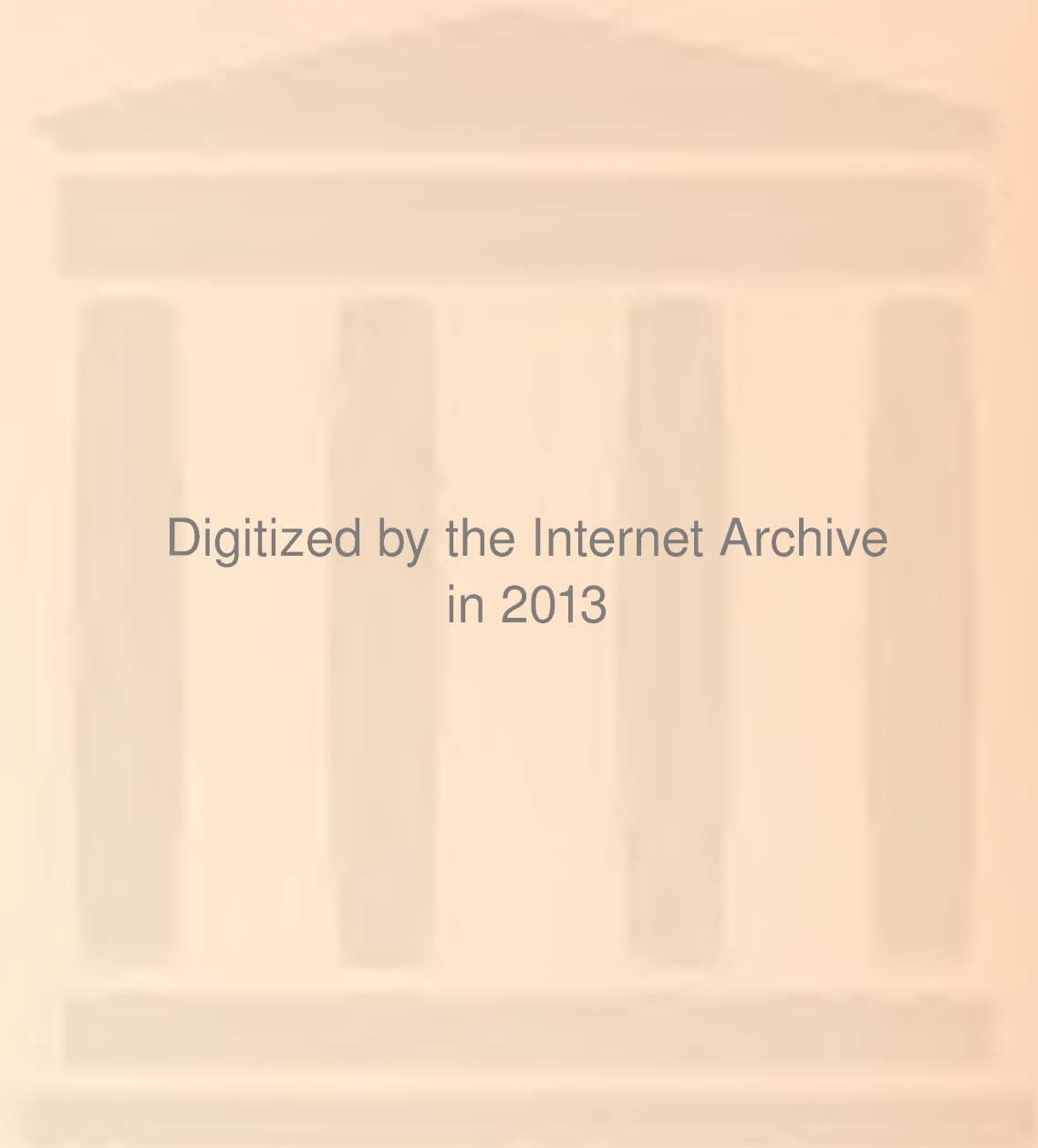
CARLETON UNIVERSITY

103rd Convocation, Spring 1995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1995 Spring Convocation

Convocation at Carleton University 2

Thursday, June 15, 10:00 a.m.
Honorary degree recipient Clifford K. Hargrove 6
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Doctor of Philosophy from the Faculty of Science; Master of Science; Master of Computer Science; Bachelor of Science, Bachelor of Computer Science 9

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The Convocation ceremonies may be heard on FM-assisted Listening System, Channel #26. A limited number of receivers are available at each ceremony.

Convocation at Carleton University

The Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.

The Mace

The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function—in the case of universities, to grant degrees.

At Convocation, the mace is carried ahead of the Chancellor as he enters and leaves each ceremony. (Marshal of Convocation H.H.J. Nesbitt has performed this function for all but one of the University's Convocations.) During the ceremony the mace is displayed on a special stand as an embodiment of the authority of the University.

Carleton's mace was presented to the University in 1976 as a gift from the Chair of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff approximately three feet long. At the upper end there is a bowl marked with the University's coat of arms and the University motto in both Latin and English—"Opera Nobis Aeterna" and "Ours the Task Eternal." From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

Coat of Arms

The coat of arms was presented to the University by His Excellency The Right Honourable Ramon John Hnatyshyn on November 15, 1992 as part of Carleton's 50th anniversary celebrations. It is described in heraldic terms as follows: "Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: on a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules."

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the University when he was 82 years old. "Ours the Task Eternal" is taken from a Walt Whitman poem entitled "Pioneers" and ties in with the eternal quality of the phoenix.

And so, the Carleton University coat of arms symbolizes sound learning, good citizenship, and the highest hopes of humanity.

The Diploma

The diploma the graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the University, it is the Senate which has determined whether the requirements have been met. The signatures of both the Chancellor and the President of the University appear on the diploma: the Chancellor because of his role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The Seal of the University is affixed to the diploma as a mark of authentication.

Academic Dress

The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code. All three hoods—bachelor's, master's, and doctor's —are of the simple or Oxford shape. The bachelor's hood is made of black stuff; the master's and doctor's are made of black silk and all are lined with silver silk with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more and more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations: architecture is cerise; arts is white; commerce is camel brown; computer science is royal blue; engineering is orange; industrial design is dark cardinal; journalism is white with a black cord sewn slightly in from the lower border; management studies is camel brown with a black cord sewn slightly in from the lower border; music is venetian pink; public administration is peacock blue; science is golden yellow; social work is cream; and doctor of philosophy is purple.

The bachelor's gown, to be worn with the above hoods, is of full length, made of black stuff, with a gathered yoke behind, and long open-fronted sleeves. The master's gown is of full style, made of black silk or rayon, with a full gathered yoke behind, and closed sleeves with an opening at the elbows. The doctoral gown is of the same style as the master's, but made of fine royal blue cloth with facings of light blue silk.

The two shades of blue in the doctoral gown are those of the United Nations, and are meant to recognize the University's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the University awarded its first honorary degree, in 1954, to the second Secretary General of the United Nations, the late Dag Hammarskjöld. The tradition of awarding honorary degrees to Secretaries General of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Science, Engineering or Architecture is a full robe with bell-shaped sleeves. It is made of fine royal blue cloth with facings and sleeves in light blue silk. The hood is made of the same material as the gown, has the same lining as that for the degrees granted by examination, and is bordered with dark mauve for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; red for the degree of Doctor of Science; orange for the degree of Doctor of Engineering; and cerise for the degree of Doctor of Architecture.

Alumni Park

Weather permitting, today's Convocation ceremonies are being held outdoors in Alumni Park which was dedicated in 1992, at the initiative of the Carleton University Alumni Association, to commemorate the University's 50th anniversary. The arbour under which the Chancellor, the President and Vice-Chancellor, the Chair of the Board of Governors and the faculty are seated is a generous gift from the Association. It provides a permanent stage for Carleton's Convocation ceremonies and other events such as theatrical productions, concerts, and the like. Future plans for the Park include an enhancement of the existing fountain area with the construction of a plaza and landscaping to open up views to the Rideau River.

The Presiding Officer of Convocation is the Chancellor of the University, Arthur Kroeger, O.C., M.A., LL.D.

Accompanying him on the podium are Maureen O'Neil, B.A., Chair of the Board of Governors, and Robin H. Farquhar, M.A., Ph.D., F.C.C.E.A., President and Vice-Chancellor.

Assisting the Chancellor are:

Herbert H.J. Nesbitt, M.A., Ph.D., Sc.D., D.Sc., F.L.S., F.E.S.C., F.Z.S.
Professor Emeritus of Biology
and Marshal of Convocation

Robert G. Laird, M.A., Ph.D.
Associate Professor of English Language and Literature
Acting Clerk of Senate
and Assistant Marshal of Convocation

Kevin R. Goheen, B.A.Sc., Ph.D., P.Eng.
Associate Professor of Engineering
and Head Beadle of Convocation

Kenneth Hardy, M.Sc., Ph.D.
Associate Professor of Mathematics
and Beadle of Convocation

David T. Lau, B.Eng., M.S., Ph.D., P.Eng.
Associate Professor of Engineering
and Beadle of Convocation

Moyra J. McDill, M.Eng., Ph.D., P.Eng.
Associate Professor of Engineering
and Beadle of Convocation

Irwin Reichstein, B.Sc., Ph.D.
Associate Professor of Computer Science
and Beadle of Convocation

Claudia Schroder-Adams, M.Sc., Ph.D.
Assistant Professor of Earth Sciences
and Beadle of Convocation

Michael J. Worswick, M.A.Sc., Ph.D.
Associate Professor of Engineering
and Beadle of Convocation

Also assisting at Convocation:

Kenneth J. McGillivray, B.A., Ph.D.
Associate Dean (Student and Academic Services),
Faculty of Graduate Studies and Research
and Adjunct Professor of English Language and Literature

Ruth Lifeso, B.Sc.
Assistant Dean and Registrar
Faculty of Science and School of Computer Science

R.L. Fleming, B.A.
Assistant Dean (Academic)
Faculty of Engineering

Linda Backer
Carol Corkran
Sharon Palmer
Registrar's Office, Faculty of Graduate Studies and Research

Mary Orser
Lisa Ralph
Registrar's Office, Faculty of Science and School of Computer Science

Marilyn Baird
Pegge Clarke
Marlene Groves
Registrar's Office, Division of Engineering

Lisa Papadakis, B.A.
Norman Smithley
Office of Admissions (Records and Registration Services)

Pamela Mallon
Juliet Kayanja
Office of the President

Joan Charron
Nanci Jolicoeur
MaryAnne Pomainville
Patrick O'Brien, B.A., D.P.A.
Cheryl Wrightsell
Patricia Zorge, B.A./B.P.E.
Public Relations and Information Services

Cathy Pearen
Senate Office

Clifford K. Hargrove, B.A., B.Sc., M.Sc., Ph.D.

Dr. Clifford K. Hargrove, Scientist Emeritus, Centre for Research in Particle Physics, Carleton University, will be awarded the degree of Doctor of Science, *honoris causa*, at the morning ceremony on Thursday, June 15, "in recognition of a distinguished scientific career in the field of subatomic physics, which has exemplified the benefits of creative interaction between government sponsored research and that of the universities."

Clifford Hargrove was born in Saint John, New Brunswick in 1928. He received a Bachelor of Arts degree from the University of New Brunswick in 1949. In 1953, he studied chemistry at the University of Ottawa then moved to McGill University where he received a Bachelor of Science degree in mathematics and physics in 1955. He continued with graduate studies at McGill and received a Master of Science degree (1957) and his Ph.D. (1961) in nuclear physics.

In 1961, Dr. Hargrove became an Assistant Research Officer with the High Energy Physics Section of the National Research Council. In 1965 he was made Associate Research Officer and, in 1973, Senior Research Associate of the High Energy Physics Section. He taught a graduate course in experimental physics at Carleton University from 1968 to 1971 and, in 1977, he was made adjunct professor of physics at Carleton. In 1984 he was appointed Principal Research Officer at the National Research Council and, in 1990, he became Principal Research Officer of the Centre for Research in Particle Physics at Carleton University.

The emphasis of Dr. Hargrove's work has been on four major topics: nuclear physics; intermediate energy physics; particle physics, and instrumentation for particle physics. His work in nuclear physics started with his Ph.D., then shifted to intermediate energy and particle physics in 1963, and initially centred around work on muonic atoms at the University of Chicago cyclotron. This work was highlighted by the first measurement of muonic atoms with the new high resolution Ge counters. In parallel with the intermediate physics work, a program of particle physics was carried out in collaboration with American and international scientists. Through Dr. Hargrove's efforts, the Centre for Research in Particle Physics at Carleton is now a part of OPAL (Omni Purpose Apparatus for LEP) at CERN, Geneva, Switzerland. This experiment is being carried out by an international collaboration of 150 physicists from 22 institutions in nine countries. Dr. Hargrove also initiated the SNO (Sudbury Neutrino Observatory) Project in Canada – a deep underground experiment, located in Sudbury, Ontario, to study the sun through the observation of neutrinos.

Dr. Hargrove is the author of over 200 publications in refereed journals.

Thursday,
June 15, 10:00 a.m.

Order of Proceedings

Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

- ❒ Processional Music
  John Robert Coghill Sr., C.D. (bagpipes)
  John Robert Coghill Jr., C.D., B.Mus. (bagpipes)
  Garry Matthews, C.D. (snare drum)

- ❒ O Canada*
  (the audience is invited to sing)

- ❒ Welcome by the President and Vice-Chancellor
  Robin H. Farquhar, M.A., Ph.D., F.C.C.E.A.

- ❒ Conferring of Degrees by Examination

  Warrant
  Robert G. Laird, M.A., Ph.D.
  Acting Clerk of Senate

- ❒ Introduction of the Medallists
  The Acting Clerk of Senate

- ❒ Awarding of the Medals
  Leslie A. Copley, M.Sc., Ph.D.
  Vice-President (Academic)

- ❒ Presentation of the Henry Marshall Tory Award
  The President and Vice-Chancellor

- ❒ Conferring of the Degree of Doctor of Science, *honoris causa*, upon
  Clifford K. Hargrove, B.A., B.Sc., M.Sc., Ph.D.
  (presented by Professor P.J.S. Watson, B.Sc., Ph.D.,
  Chair of the Department of Physics)

- ❒ Convocation Address
  Clifford K. Hargrove

- ❒ Recessional Music

* *see next page for words*

O Canada

O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.

Doctor of Philosophy

(Presented by Professor J.W. ApSimon, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Martin Holcik
B.Sc., M.Sc. (Bratislava)
Biology
Plasmid pCU1 Mediated Killing of *Klebsiella oxytoca*-molecular Mechanism of KikA Action
Supervisor: Prof. V.N. Iyer

*** Clark Peter Holden**
B.Sc. (Mount Allison), M.Sc. (Carleton)
Biology
Signal transduction and the function of second messengers and protein kinases in the control of glycogenolysis and cryoprotectant production in freeze tolerant vertebrates
Supervisor: Prof. K.B. Storey

Denis Richard Joanisse
B.Sc. (Carleton)
Biology
Metabolism During Overwintering in Two Species of Cold-Hardy Goldenrod Gall Insects
Supervisor: Prof. K.B. Storey

Haiyan Wang
B.Sc. (Univ. of Beijing), M.Sc. (Academia Sinica, China)
Biology
The Polymyxin-Cloth Enzyme Immunoassay for Detection of Salmonellae and its Confirmation by Polymerase Chain Reaction
Supervisor: Prof. H. Yamazaki

*** Linnus Lucas Cheruiyot**
B.Ed., M.Sc. (Nairobi)
Chemistry
Long Range Antiferromagnetic Exchange Coupling in Dinuclear Copper (II) Complexes Containing 1,4-Dicyanamidobenzene Dianion Bridging Ligands
Supervisor: Prof. R.J. Crutchley

*** Mohammad Hassan Entezari**
B.Sc. (Mashad,Iran), M.Sc. (Mazandaran, Iran)
Chemistry
The Effect of Frequency on Sonochemical Reactions
Supervisor: Prof. P. Kruus

Peter Njuguna Githira
B.Sc. (Nairobi, Kenya), M.Sc. (Wollongong, Australia), M.Ed. (Saskatchewan)
Chemistry
Extraction of Pesticide Residues from Soils Using Different Methods
Supervisor: Prof. P. Kruus

*** Hossein Mehrani**
B.Sc. (Esfahan, Iran), M.Sc. (Shiraz, Iran)
Chemistry
Regulation of Glycogen Metabolism by Protein Phosphorylation During Environmental Stress
Supervisor: Prof. K.B. Storey

Mark Leonard Naklicki
B.Sc. (Carleton)
Chemistry
Inner-Sphere and Outer-Sphere Perturbations of the Ruthenium-Cyanamide Bond in Mononuclear and Dinuclear Pentaammineruthenium Complexes of 1,4-Dicyanamidobenzene Ligands
Supervisor: Prof. R.J. Crutchley

*** Mark Leonard O'Neill**
B.Sc. (Carleton)
Chemistry
The Effects of Supercritical Fluids on Amorphous Polymers
Supervisor: Prof. P. Kruus

Alireza Rezvani
B.Sc. (Mashad, Iran), M.Sc. (Mazandaran, Iran)
Chemistry
Inner and Outer Sphere Perturbation of the Ru(III)-Cyanamide Bond and the Consequences to Metal-Metal Coupling
Supervisor: Prof. R.J. Crutchley

*** Catharine Elizabeth Goddard Farrow**
B.Sc. (Mount Allison), M.Sc. (Acadia)
Earth Sciences
Geology, Alteration, and the Role of Fluid in Cu-Ni-PGE Mineralization of the Footwall Rocks to the Sudbury Igneous Complex, Levack and Morgan Townships, Sudbury District, Ontario
Supervisor: Prof. D.H. Watkinson

John Murray Duff Wilson
B.Sc., M.Sc.Eng. (Queen's)
Earth Sciences
Mineralogical Characteristics Which Affect Mineral Processing of Faro and Vangorda Ores, Yukon, Canada
Supervisor: Prof. G.Y. Chao

Ayşe Alaca
B.Sc. (Karadeniz, Turkey), M.Sc. (New Brunswick)
Mathematics
The Inverse Eigenvalue Problem
Supervisor: Prof. A.B. Mingarelli

Nelly Fayçal
B.Sc. (Lebanese, Lebanon), M.Sc. (Ottawa)
Mathematics
On the Classification of Pyramidal Central Configurations in the 5-Body Problem
Supervisor: Prof. A.B. Mingarelli

Qun Wang
B.Sc., M.Sc. (Tsinghua, China)
Mathematics
Statistical Modeling and Analysis of the Salmonella Microsome Assay
Supervisors: Profs. D. Krewski and A.K. Md.E. Saleh

George Xiao Ding
B.Sc., M.Sc. (Nanzhou, China)
Physics
An Investigation of Radiotherapy Electron Beams Using Monte Carlo Techniques
Supervisor: Prof. D. Rogers

*** Paul Edward Madsen**
B.Sc. (Carleton), M.Sc. (Western Ontario)
Physics
Probing Anomalous Contributions to Triple Boson Couplings
Supervisor: Prof. P. Kalyniak

Master of Science

(Presented by Professor J.W. ApSimon, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

*** Stephanie C. Berry**
B.Sc. (Queen's)
Biology
The influence of vegetation and soil carbon dioxide exchange on the concentration and isotopic composition of atmospheric carbon dioxide within plant canopies

*** John Harvey Pedlar**
B.Sc. (Guelph)
Biology
Variation in racoon and skunk abundance along an agricultural intensity gradient across two spatial scales

*** Konstantinos Alexopoulos**
Diploma (Patras, Greece)
Chemistry
The Use of Flourinated Fatty Acids as a Mechanistic Probe for the Fatty Acid Desaturation by the Stearoyal-CoA Δ 9-Desaturase of Saccharomyces cerevisiae

Michael Edward Briggs
B.Sc. (Carleton)
Chemistry
Investigation of Nitrated and Nitrogen Polycyclic Aromatic Hydrocarbons in Crude Oils and Fluorescence Detection Development for the TRACC* Water Concentrator

*** V. Mark Reynolds**
B.Sc. (Carleton)
Chemistry
Conformational Analysis of Some Model Crown Ethers and Analogues via ^{1}H and ^{13}C NMR Spectroscopy and X-Ray Crystallography

Xu Zhu
B.Sc. (Xiamen, China)
Chemistry
^{129}Xe NMR Spectroscopy of Xenon in Coal Micropores

*** Barbara Marilyn Acheson**
B.Sc. (Carleton)
Earth Sciences
Determination of $^{7}Li/^{6}$ Li Isotope Ratios in Geological Materials by Inductively Coupled Plasma Mass Spectrometry

Anett Gunilla Briggs
B.Sc., M.Sc. (Lund, Sweden)
Earth Sciences
A Geochemical Investigation into the Origin of Brackish Groundwater from Wells and Springs East of Ottawa, Canada

Ying Chang
B.Sc. (Wuhan Geological, China), M.Sc. (China University of Geology, Beijing)
Earth Sciences
Determination of Phylogenetic Relationships between Foraminiferal Suborders: A Cladistic Approach

Annick Chouinard
B.Sc. (Quebec)
Earth Sciences
Low-Pressure High-Temperature Metamorphic Relationships between the Anialik River Volcanic Belt and the Kangguyak Gneiss Belt, Northwestern Slave Province

*** Faustina Francis Mgonde**
B.Sc. (Dar es Salaam, Tanzania)
Earth Sciences
Mobilization and Redistribution of Phosphate and Rare-earth elements in the weathering profile above Panda Hill carbonatite, SW, Tanzania

E. Anne Sager-Kinsman
B.Sc., B.A. (Carleton)
Earth Sciences
A Regional Study of Groundwater, Manotick, Ontario

Youjian Fang
B.Sc., M.Sc. (Hubei, China), Ph.D. (Ottawa)
Information and Systems Science
On TES/GI/1 Queueing Systems

David Arthur Crawford Jones
B.Sc.,B.A.Sc. (British Columbia)
Information and Systems Science

*** Jennifer Junning Liu**
B.A. (Nanjing, China)
Information and Systems Science
Performance Analysis of Concurrent Object-Oriented Systems

*** Vaclav Matyas**
Magistr (Masquyk, Czech Republic)
Information and Systems Science

Lei Shi
B.Eng. (Tsinghua, China), M.Sc. (Alberta)
Information and Systems Science

Yan Tang
B.C.Sc. (Beijing Computer Institute, China)
Information and Systems Science
Using Timethreads to Relate Performance and Design Models

Wendy Zeng
B.Sc. (Hangzhou Teachers' College, China)
Information and Systems Science

Yijun Zhou
B.Sc. (Xiangtan, China)
Information and Systems Science

*** Derek R. Bingham**
B.Sc. (Concordia)
Mathematics
Detecting Active Effects in Unreplicated Factorial Experiments

Daniel Ducharme
B.Sc. (Ottawa)
Mathematics

Doru Kaytar
Diploma Physicist, (Bucharest, Romania)
Physics
Hyperthermia Generated with Array of Interstitial Ultrasound Waveguide Applicators

*** Stephen Craufurd Taylor**
B.A.Sc. (Queen's)
Physics
Performance of Gas Microstrip Detectors Constructed on Plastic Substrates

*** Leslie Ann Drummond**
B.A. (Carleton)
Psychology
Specialization in Neuroscience
The Influence of Stressor and Cytokine Treatment on Plasma Corticosterone and Central Biogenic Amines

*** Wayne Stewart McLeod**
B.A. (Winnipeg)
Psychology
Specialization in Neuroscience
The Effects of Amygdala Kindling on T-Maze Performance on Epileptogenically Fast and Slow Kindling Rat Strains

*** Paul David Mendella**
B.A. (Manitoba)
Psychology
Specialization in Neuroscience
Intraventricular Administration of [D-Pen2,D-Pen5] - Enkephalin in the CD-1 Mouse: Variations of Activity, Exploration and Intracranial Self-Stimulation from the Dorsal A10 Region Following Uncontrollable Footshock

Master of Computer Science

(Presented by Professor J.W. ApSimon, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

*** Jeffrey Clarke Alguire**
B.C.S. (Carleton)
On-Line Dynamic Views of Applications Written in Smalltalk

*** Craig Robert Hayashi**
B.C.S. (Carleton)
Integrating Process Modeling and Metrics Support for Object-Oriented Software Development

*** John Lorne Houle**
B.Sc. (Carleton)
Nucleotide Pattern Matching on the Intel iPSC/860 Hypercube

Flaminia Luccio
B.C.S. (Italy)
Distributed Algorithms for Routing and String Recognition

Thai Ba Nguyen
B.C.S. (Carleton)
Moment-Preserving Piecewise Linear Approximations of Signals and Images

*** Khaled Kamal Noaman**
B.C.S. (Cairo)
Towards Unifying Design and Implementation

Anton Saarimaki
B.Sc. (Lakehead)
Bulk Synchronous Parallel: Practical Experience with a Model for Parallel Computing

*** Jelber Sayyad Shirabad**
B.Sc. (Shahid Beheshti, Iran)
On Supporting Need-Driven Design and Programming

*** Kwok Wa Wong**
B.C.S. (Carleton)
Partitioning B+-tree in a Parallel and Distributed Computing Environment

*** Theodoros Zarros**
B.C.S. (Patras, Greece)

Bachelor of Science (with Honours)

(Presented by Professor D.R. Gardner, Dean of the Faculty of Science, assisted by representatives of Departments)

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BIOCHEMISTRY

Catherine Ann Fafrowicz
Highest Honours

Catherine Gray
High Honours

Marie Irene Halliday
Honours

BIOCHEMISTRY AND BIOTECHNOLOGY

Jennifer Brown
High Honours

Kaede M. Gomi
Highest Honours

Suman Khulbe
B.Sc. (Carleton)
High Honours

Yen Hoa Ly
Honours

Gregory Scott Mowry
Honours

Panteha Shafaie
Honours

Jacqueline Anne Whiteway
Highest Honours

BIOLOGY

Jason Thomas Fisher
Highest Honours

*** Keith Hubbard**
Highest Honours

Valentin Benjamin Ilivitsky
High Honours

David John Lindley
B.A. (Carleton)
Honours

Helen F. Privora
B.Sc. (Carleton)
Highest Honours

Jennifer Lynn Sample
Honours

Vanessa Margarita Sauve
Honours

Rosanne A. Wall
Honours

BIOLOGY AND GEOGRAPHY

Robert Paul Vanderkam
High Honours

CHEMISTRY

Kenneth T. Campbell
Honours

Cari Lynn Rule
Honours

Nicolas J. Sunderland
Honours

ENVIRONMENTAL SCIENCE

Paul John Bertels
Honours

Brigitte Denise Collins
High Honours

Nicole Dorthea Nadorozny
B.A. (Carleton)
Highest Honours

Jason W. Nugent
Honours

*** Carol E. Potter**
Highest Honours

Melony Jennene Powers
High Honours

Sarah Rosolen
Highest Honours

Mei-Lin Kim Stichbury
High Honours

GEOGRAPHY

Maria-Theresia Graf
Highest Honours

L. A. Reed Kirkpatrick
Highest Honours

GEOLOGY

David Glenn Bouwman
Honours

Jeffrey Roger Forgrave
B.A. (Royal Military College)
Honours

Jake Jakop
Honours

Andrew Michael MacDonald
High Honours

Thomas M Cambley
Honours

* Pascal Mouchakkaa
Honours

Paul Tunstall
Honours

COMPUTER MATHEMATICS

Yassaman Rezvani
Honours

COMPUTER SCIENCE AND MATHEMATICS

Rowaida Zbib
Highest Honours

MATHEMATICS

Katherine Emma Smith
Highest Honours

MATHEMATICS AND PHYSICS

Dylan Christopher Hunt
Highest Honours

* Jeffrey A. McPhail
High Honours

STATISTICS

Janna Colleen Felstead
Honours

PHYSICS

Pierre Daniel Beaulne
Highest Honours

Gordon James Chan
Highest Honours

PSYCHOLOGY

Natalie Justine Chychrun
Honours

Ernest Hudson
B.Sc. (Carleton)
Honours

Noreen Laura Phoebe Sharpe
Highest Honours

David Mark Telka
Honours

Bachelor of Science

(Presented by Professor D.R. Gardner, Dean of the Faculty of Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

BIOCHEMISTRY

* Jason Edward Berg
Biochemistry

Charmaine Patricia Gooden
Biochemistry

Ian Lawford
Biochemistry

Siu-Cheung Eddie So
Biochemistry

BIOLOGY

* Richard Charles Abbott
Biology

Deborah Ann Bourne
Biology

James Michael Casserly
Biology

* Carole Julie Deschamps
Biology

Jacinda Kirsten Flood
Biology

* Matthew J. Gay
Biology

Daniel Hudon
Biology

Susan Mary Johansen
Biology

Pamela Lu
Biology

Christine Maidens
Biology

Grace Therese Mansour
Biology

Michael Patrick Milloy
B.A. (Ottawa)
Biology

Sabrina Piombo
Biology

Melanie Joan Riddell
Biology

Julie M. Start
Biology

CHEMISTRY

* John Julian Bain
Chemistry

Dean Alexander Baker
Chemistry

Hala Charara
Chemistry

Gita Gupta
Chemistry

Raymond F. Hennessey
Chemistry

Claire Jane Reed
Chemistry

Dean Regalbuto
Chemistry

David Wayne Rodger
Chemistry

Darren William Snelgrove
Chemistry

Mohit Vikrant
Chemistry

GEOLOGY

Alejandro D. Ivanoff
Geology

Clayton Charles Kingdon
Geology

Heather Ann Simpson
Geology

INTEGRATED SCIENCE STUDIES

* Katherine Joan Amyot
Integrated Science Studies

Andrew Bachmeier
Integrated Science Studies

Reid Alphonse Gravelle
Integrated Science Studies

Deanna Leah Simpson
Integrated Science Studies

* An Vo
Integrated Science Studies

COMPUTER MATHEMATICS

Karen Chan
Computer Mathematics

Shereene Roxane Cecilia de Rosayro
Computer Mathematics

Nima Dehghani-Rahimabad
Computer Mathematics

Farzandeh Delgir
Computer Mathematics

Patrick Llewellyn Dowling
Computer Mathematics

* Raafat El-Khatib
Computer Mathematics

Semra Gulder
Computer Mathematics

* Kai Ming Walter Ho
Computer Mathematics

* Sylvia Phuong Huynh
Computer Mathematics

Sophia Shui Fai Kong
Computer Mathematics

Pak-Lun Bernard Law
Computer Mathematics

* Thanh Kim Le
Computer Mathematics

* Walid Matta
Computer Mathematics

Abdikarim Yussuf Mohamed
Computer Mathematics

Joe Kin Ng
Computer Mathematics

*** Chau Van Nguyen**
Computer Mathematics

Tony Nguyen
Computer Mathematics

Hanh Tran
Computer Mathematics

Florentin Niklaus Wandeler
Computer Mathematics

Mou Yung Yip
Computer Mathematics

MATHEMATICS

Brent Patrick Daye
Mathematics

Derek P. Edwards
Mathematics

David Richard Patrick Herjavec
Mathematics

Trevor Uwe Daniel Howes
Mathematics

Karen Lee Huynh
Mathematics

Tsz Kin Kung
Mathematics

STATISTICS

Pui Hong Patrick Hung
B.Sc. (Carleton)
Statistics

Yu Kit Vivian Ma
Statistics

Paula Mick
Statistics

PHYSICS

*** Paul N. Chedore**
Physics

Michael Anthony Earl
Physics

Simon Kavcic
Physics

Aaron Merifield
Physics

*** Frank Paul Scanga**
Physics

Soriana Villanueva
Physics

Bachelor of Computer Science (with Honours)

(Presented by Professor Frantisek Fiala, Acting Director of the School of Computer Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

David Michael Alexander
Honours

John David Andrusek
High Honours

Kenneth Darrell Barr
Honours

David P. Bissessar
B.A. (Carleton)
High Honours

*** Shu Hung Chan**
High Honours

*** Susanna Shuk Seung Chan**
High Honours

*** Conlinh Chau**
Highest Honours

Jennifer Wing-Chee Cheung
Highest Honours

Philip Chun Kit Chiu
Honours

Andrew Duncan Hackston
Highest Honours

*** Hamid Hadavi**
High Honours

Russell Stuart Harper
B.Sc. (Carleton)
Highest Honours

Colin Fraser Higginson
Honours

Jian Huang
B. Medicine (Guangzhou Medical College)
High Honours

*** William L. M. Hui**
Highest Honours

Son Huynh Ngoc
High Honours

*** Meng Hang Kan**
Highest Honours

Tania Kaspszak
Highest Honours

*** Scholastica Oi-Ting Lau**
Highest Honours

Darren Armand Lemire
High Honours

Kin Hou Leong
B.Com. (Carleton)
High Honours

*** Shaorun Li**
B.A., M.A. Arts (Beijing)
Highest Honours

Vaughan Raymond Wilton Loucks
Highest Honours

*** Ping Shing Ma**
High Honours

Siu Fun Ng
High Honours

Chui Yee Ngai
Honours

Jacqueline Ruth Nichols
High Honours

Fred W. Odendaal
Highest Honours

Michael Jude Roberts
B.Sc.E. (New Brunswick)
Highest Honours

Timothy Francis Ross
Highest Honours

John Christopher Schwartz
Honours

Kirk Smith
High Honours

Geoffrey J. P. Spencer
Honours

*** James Andrew Stelzig**
High Honours

Daisy Suk Chee Tan
Highest Honours

Nancy Lorraine Taylor
Honours

Johnny Pak Cheung Wong
Honours

*** Ambrose Gary Kar-Yin Yip**
Honours

Ning Zhao
Highest Honours

David Zinman
Honours

Terence H. Matthews, O.B.E., D.Tech., F.I.E.E., P.Eng.

Terence H. Matthews, Chairman of the Board and Chief Executive Officer, Newbridge Networks Corporation, will be awarded the degree of Doctor of Engineering, *honoris causa*, at the afternoon ceremony on Thursday, June 15, "in recognition of an outstanding innovative contribution, as an entrepreneur, to the development of technology infrastructure in Canada and abroad, and a distinguished supportive contribution to the institutional life of Carleton University."

Terence Matthews was born in Newport, Wales in 1943 and grew up in a nearby town called Newbridge. He left school at 16 to work at British Telecom Research Labs but continued to study part-time at the Newport College of Technology where he earned Higher National Certificates in Electrical and Mechanical Engineering. Upon graduation in 1969, he emigrated to Canada.

Dr. Matthews worked initially as an applications engineer at Microsystems International Ltd., a subsidiary of Northern Telecom, ultimately becoming Manager of Telecommunications Product Marketing. In 1972, he co-founded Mitel Corporation. Dr. Matthews directed the marketing, sales, and product management activities of Mitel during its first 10 years, when the company grew to become a world leader in the design and manufacture of telecom IC devices and electronic private switchboards. British Telecom bought controlling interest in Mitel in 1985 and, in March, 1986, Dr. Matthews left the company to found Newbridge Networks Corporation, which now employs more than 2,500 people worldwide. The company maintains facilities in North and South America, Europe, the Middle East, Africa, and Asia-Pacific.

Dr. Matthews served as a member of the Board of Governors at Carleton University from 1989 to 1994. During that time he was a member of the Executive Committee, the Building Program Committee and chaired the Audit Committee.

In October, 1987, Dr. Matthews was admitted a Fellow of the Institution of Electrical Engineers (United Kingdom). In May, 1994, he was appointed an Officer of the Order of the British Empire. He received an honorary Doctor of Technology degree from the University of Glamorgan in Wales in 1994.

Dr. Matthews is Chairman of the Board of CrossKeys Corporation, West End Systems Corporation, TimeStep Corporation, and is a member of the Canadian Information Highway Advisory Council.

Thursday,
June 15, 2:00 p.m.

Order of Proceedings

Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

- ❒ Processional Music
  John Robert Coghill Sr., C.D. (bagpipes)
  John Robert Coghill Jr., C.D., B.Mus. (bagpipes)
  Garry Matthews, C.D. (snare drum)

- ❒ O Canada*
  (the audience is invited to sing)

- ❒ Welcome by the President and Vice-Chancellor
  Robin H. Farquhar, M.A., Ph.D., F.C.C.E.A.

- ❒ Conferring of Degrees by Examination

  Warrant
  Robert G. Laird, M.A., Ph.D.
  Acting Clerk of Senate

- ❒ Introduction of the Medallists
  The Acting Clerk of Senate

- ❒ Awarding of the Medals
  Leslie A. Copley, M.Sc., Ph.D.
  Vice-President (Academic)

- ❒ Conferring of the Degree of Doctor of Engineering, *honoris causa*, upon
  Terence H. Matthews, O.B.E., D.Tech., F.I.E.E., P.Eng.
  (presented by L. Robert Morris, B.A.Sc., D.I.C., Ph.D., P. Eng., Professor of Engineering)

- ❒ Convocation Address
  Terence H. Matthews

- ❒ Recessional Music

* *see next page for words*

O Canada

O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.

Doctor of Philosophy

(Presented by Professor J.W. ApSimon, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Nabil Al-Joulani
B.Sc. (King Abdul Aziz, Saudi Arabia), M.Sc. (King Falid, Saudi Arabia)
Civil Engineering
Strength and Deformation Behaviour of Stone Columns Confined with Polymer Sleeves
Supervisor: Prof. G.E. Bauer

Khaled Ibrahim
B.Sc. (Suez Canal, Egypt), M.Eng. (Carleton)
Civil Engineering
Inelastic Behaviour of Reinforced Masonry Sheer Walls: An Experimental and Analytical Study
Supervisor: Prof. G.T. Suter

Changjiang Liu
B.Sc. (Zhejiang, China), M.Eng. (China Textile)
Civil Engineering
Design of Plywood Sheathed Wood Floors and Roofs
Supervisor: Prof. J.J. Salinas

Hosny Abbas Hosny Mohamed
B.Sc. (Cairo, Egypt), M.A.Sc. (Waterloo)
Civil Engineering
Development of Optimal Strategies for Bridge Management Systems
Supervisors: Profs. A.O. Abd El Halim and A.G. Razaqpur

Victor Charles Aitken
B.A.Sc. (British Columbia), M.Eng. (Carleton)
Electrical Engineering
Sliding Mode State Estimation for Nonlinear Discrete-time Systems: Applications in Image Sequence Analysis
Supervisor: Prof. H.M. Schwartz

*** Erik Willy Dravnieks**
B.Sc. (Saskatchewan), M.Sc. (Carleton), M.L.I.S. (Western Ontario)
Electrical Engineering
A Methodology for the Formulation and Solution of Global Optimization Problems
Supervisors: Profs. J.W. Chinneck and G.M. Karam

Moderage Chandana Fernando
B.Eng., M.Eng. (Carleton)
Electrical Engineering
Novel Si/SiGe Optical Switch and Optoelectronic Modulator
Supervisors: Profs. J.S. Wight and N.G. Tarr

Edward Frlan
B.Eng., M.Eng. (Carleton)
Electrical Engineering
Dense-Wavelength Demultiplexing and Microwave Frequency Generation Using Nonlinear Optical Wavelengths
Supervisors: Prof. J. Wight and Dr. R. Normandin

*** Kathiravan Krishnamurthi**
B.E. (India), M.Sc. (Saskatchewan)
Electrical Engineering
Heterostructure Varactors on GaAs and InP for Millimeter- Wave Triplers
Supervisor: Prof. R.G. Harrison

Carlos Roberto Pon
B.Tech. (Ryerson Polytechnical Institute), M.Eng. (Carleton)
Electrical Engineering
Time Warping - Waveform Relaxation (TW - WR) in a Distributed Circuit Simulation Environment
Supervisor: Prof. T.A. Kwasniewski

Raul San Martin
B.Eng. (Sao Paulo, Chile), M.A.Sc. (Ottawa)
Electrical Engineering
Optimizing Power Consumption, Area and Delay in Behavioral Synthesis
Supervisor: Prof. J. Knight

*** Lijue Xue**
M.Sc. (Shanghai Jiao Tong, China)
Mechanical Engineering
Surface Modification Treatments to Improve the Fretting Fatigue Resistance of TI-6AL-4V
Supervisor: Prof. M. J. Bibby

Master of Engineering

(Presented by Professor J.W. ApSimon, Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

François-Léon Bélanger
B.Eng. (Quebec)
Aerospace Engineering
Aerodynamic Design of an Experiment for Flow Measurements in the Gap Region of a Two-Element Airfoil in a Small Wind Tunnel

Carole Marie Rita Bolduc
B.Eng. (Carleton)
Aerospace Engineering
Self-Alignment and Navigation Algorithms for DREO Navigation Laboratory Heading Reference Unit

Stefano Fabio De Cecco
B.Eng. (Carleton)
Aerospace Engineering
The Aerodynamics of Turbine Blades with Tip Damage

Derek Anthony Hartl
B.Eng. (Carleton)
Aerospace Engineering
Alignment Determination and Error Characterization of Inertial Components for Use in an Airborne Gravimeter

*** Tari Eileen Kaye**
B.Sc. (Waterloo)
Aerospace Engineering
Techniques for Aircraft Force and Moment Model Development Using Geometry and Stability and Control Derivative Estimates

Richard Garner Lee
B.Tech. (Ryerson Polytechnical Institute), B.Eng. (Carleton)
Aerospace Engineering
A Wind-Tunnel Investigation of the Dynamic Manipulation of Forebody Vortices

Risto Omer Majeed
B.Eng. (Carleton)
Aerospace Engineering
Numerical Modelling of Transverse Impact on Composite Coupons

Bruce Alexander McClure
B.Sc. (Queen's)
Aerospace Engineering
The TEther-LABoratory Demonstration System (TE-LAB); Design, Operation and Mathematical Model Validation Using an Eigenvalue Approach

*** Mathias Wuhr**
B.Eng. (Carleton)
Aerospace Engineering
The RADARSAT Antarctic Yaw Maneuver: An Alternative Based on Controlled Momentum Partitioning

James Edward Bond
B.A.Sc. (Waterloo)
Civil Engineering
Inelastic Membrane Analysis of Continuous Steel Plates

Paul Carnaffan
B.Eng. (Carleton)
Civil Engineering
An Experimental Technique for Determining the Permeability of Rock, Concrete and Cement Grout

*** Ilyas Hasan Choudry**
B.Eng. (NED Univ. of Eng. and Tech, Pakistan)
Civil Engineering

Jean-Guy Joseph Groulx
B.Eng. (Carleton)
Civil Engineering
Behaviour of Fibre-Reinforced Wood Flexural Members

Robert John Kirkhope
B.Eng. (Carleton)
Civil Engineering
Behaviour of Webs of Welded Wide Flange Shapes Subjected to Concentrated Loads

*** Ian Martin Lockwood**
B.Eng. (Carleton)
Civil Engineering

Yuhua Lu
B.Eng. (Tongji, China)
Civil Engineering
Assessment for Seismic Analysis Methods for Unreinforced Stone Masonry Towers

*** Bernard William Martin**
B.A.Sc. (Ottawa)
Civil Engineering
Management of Urban Infrastucture: Recapitalization and Equilibrium Models

Petr Srna
B.Eng. (Technical Univ. of Brno, Czechoslovakia)
Civil Engineering
Interactive Design and Analysis of Steel Beam-Columns

Marthin Dody Josias Sumajouw
M.S. (Sam Ratulangi, Indonesia)
Civil Engineering
The Computer Aided Analysis Design and Detailing for Column Base Plate of Steel Connections

David P. Toscano
B.Eng. (Carleton)
Civil Engineering
Post Yield Behaviour of Transversely Loaded Icebreaking Ship Hull Structures

Simon Arcand
B.A.Sc. (Laval)
Electrical Engineering
Load Sharing in an Integrated Satellite/Terrestrial Cellular Network

Abdulbaset Zurgani Atweri
B.Eng. (Al-Fateh, Libya)
Electrical Engineering
Noncoherent Detection with Post-Detection Processing for Digital FM over Fading Channels

*** Walter Timothy Bax**
B.Eng. (Carleton)
Electrical Engineering
A $\sum \Delta$ Frequency Discriminator-Based Synthesizer

*** Djamila Belhandouz**
B.Sc.,(École Nationale d'Algeria), M.Sc. (Cleveland)
Electrical Engineering
Constrained Inverse Filtering Restoration of Scatter-Blurred Video Fluorescence Micrographs

David Thomas Bingham
B.Eng. (McMaster)
Electrical Engineering

*** Gerald Leo Boersma**
B.Eng. (Carleton)
Electrical Engineering
A Software Architecture for Telepresence Conference Control

*** George Chamberlain**
B.Sc. (Waterloo)
Electrical Engineering
Training and Design of VLSI Neural Networks

*** James Andrew Cherry**
B.A.Sc. (Waterloo)
Electrical Engineering
Distortion Analysis of Weakly Nonlinear Filters Using Volterra Series

*** Christian Cojocaru**
Dipl.Eng. (Polytechnical Institute of Bucharest, Romania)
Electrical Engineering
Computational RAM: Implementation and Bit-parallel Architecture

Brent Ronald Cyca
B.Sc. (British Columbia), M.Sc. (Queen's)
Electrical Engineering
Pseudomorphic Silicon/Germanium Superlattices in MOS Capacitors towards Sub-Surface Channel Heterostructure p-type MOSFETs

*** Jiang Du**
M.Sc. (Western)
Electrical Engineering
The Development of Bifacial Solar Cells with Polysilicon Emitter and BSF Layers

*** Norman M. Filiol**
B.Eng. (Carleton)
Electrical Engineering
Interpolated Frequency-Hopping Spread-Spectrum Transceiver System

Brian David Gieschen
B.Eng. (Carleton)
Electrical Engineering
A Two-Dimensional Steady-State Finite Difference Simulator for Semiconductor Magnetic Field Sensors

Ding He
B.Eng. (Tsinghua, China)
Electrical Engineering

*** Curtis Eldon Hrischuk**
B.Eng., B.Sc. (Saskatchewan)
Electrical Engineering
The Automatic Generation of Software Performance Models From A Prototype

Antonio Laneve
B.Eng. (Carleton)
Electrical Engineering
Empirical Modeling of a GaAs/AlGaAs Heterojunction Bipolar Transistor for Microwave Circuit Applications

Matthew Maguire
B.Eng. (Carleton)
Electrical Engineering
BiCMOS 1.8 GHz VCO Design Using On-Chip Inductors

Bruce Donald John M'Leod
B.A.Sc. (Simon Fraser)
Electrical Engineering
A Network Services Infrastructure for Telepresence Applications

*** Luc Ouellet**
B.Sc. (Sherbrooke)
Electrical Engineering

*** François Pagette**
B.Sc. (Sherbrooke)
Electrical Engineering
Implementation of a Double-Poly Bipolar Technology

*** Revathy Ramadoss**
B.Eng., M.Eng. (Anna, India)
Electrical Engineering
Interval-Based Performance Analysis of Computing Systems

*** C. Michael Sharon**
B.Sc. (Royal Roads Military College)
Electrical Engineering
Compressed Video in Integrated Services Frame Relay Networks

*** Omar Sheshah**
B.Sc. (Florida)
Electrical Engineering
Restoration of Scatter Blurred Video Fluorescence Micrography

Caroline Tom
B.Eng. (Carleton)
Electrical Engineering
Investigation and Implementation of a Computationally- Efficient Algorithm for Cyclic Spectral Analysis

Simon Albert Vieira-Ribeiro
B.A.Sc. (British Columbia)
Electrical Engineering
Single - IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-pass Sigma-Delta Modulator

*** Xiaoyu Wang**
B.Eng., M.Sc. (Nanjing, China)
Electrical Engineering
System Performance Analysis With π/4-QPSK In An Indoor Wireless Environment

Dean J. Young
B.A.Sc. (Toronto)
Electrical Engineering

John L. Bergmans
B.Eng. (Carleton)
Mechanical Engineering
TEther-LABoratory Demonstration System (TE-LAB); Payload Orientation Determination, Rotation Rate Control, and Validation of Stability Criteria

Rajesh Kumar Bhagirath
B.Eng., M.Eng. (Punjab, India)
Mechanical Engineering

*** Philippe Gaston Bois-Grossiant**
B.Eng. (Carleton)
Mechanical Engineering
Boundary Element Fracture Mechanics Analysis of Sandwich Test Specimens

Nathalie M. Y. David
B.Eng. (McGill)
Mechanical Engineering
Design and Simulation of a Momentum Controller for ODIN: a small satellite with versatile and stringent pointing requirements

Daniel M. Fuleki
B.Eng. (Carleton)
Mechanical Engineering
Crack Initiation and Short Crack Growth Characteristics of Notched Merl 76 Specimens

David Stuart Harrington
B.Eng. (Carleton)
Mechanical Engineering
Fatigue Crack Coalescence and Shape Development - an experimental investigation

*** Rajesh Baboolal Jain**
B.Eng. (Sardar Patel, India)
Mechanical Engineering
A 2D Transient Thermal Analysis of Pressure Die Casting

*** Andrew Martin Koski-Harja**
B.Eng. (Carleton)
Mechanical Engineering
Draft Enhancing and Downdraft Inhibiting Characteristics of Chimney Caps

Chi Keung Lee
B.Eng. (Memorial)
Mechanical Engineering

Peter John Serjak
B.Eng. (Carleton)
Mechanical Engineering
An Investigation of the Effects of Roughness on the Performance of a Turbine Cascade

*** Jon Erik Torrance**
B.Eng. (Carleton)
Mechanical Engineering
Boundary Element Analysis of Interface Cracks between Orthotropic Layers

Dong Wang
B.Eng. (Tsinghua, China)
Mechanical Engineering
Correcting Topological Defects of Tessellations

Bachelor of Engineering

(Presented by Professor M.J. Bibby, Dean of the Faculty of Engineering, assisted by representatives of Departments)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

AEROSPACE

Valentina J. Bauer
with high distinction

Jason Bender
with distinction

Julie Bourdeau

Jason R. Cleary
with distinction

Jennifer Laura Cline
with high distinction

Karl Cullen
B.Sc. (St. Patrick's College, Ireland)

Steven Andrew Czepiela
with high distinction

*** Monique R. Desjardins**
with distinction

Luca Radu Diaconescu
with high distinction

John Paul Duncan

Jason Paul Dyer

Michael Patrick Egan
with high distinction

Karl William Griffin
with distinction

Todd Warren Gurela

Trevor Spence Harrison
with distinction

Michael C. Haslam
with distinction

Victor W. Ho
with distinction

Warren James Hulme
with distinction

Dan Isaac

Kyle Duncan Jackson

Yuka Maruyama

Scott R. M'Lelland
with distinction

Vinay Changramponnath Menon

Carlo Carmine Mentina
with distinction

Walter Allan Mycroft
with high distinction

J. G. Stephan Nappert
with distinction

Peter K. Nor

Denis P. Paré
with distinction

Simon Ptlanz

Timothy John Pooley

Janine Marie Przysiezny
with high distinction

Adam Rasheed
with high distinction

Daniel S. Rempel

Neil Seto

Charladean Angela Smith
with distinction

Christopher M. Thoms
with high distinction

Sean Michael Tobin

Dong Thanh Vo

Jason Leroy Wilson

Joslyn Vernice Wilson
with distinction

CIVIL

Darrin Michael Alberty

Michael Richard Lee Bennett

J. Bryan Blanshard
Concentration in Management

William Richard Bohne

Dale Braun

Andrew Brearley
Concentration in Management

Vicki Lee Brown

Michel E. Crichton
with high distinction

Nina W. R. J. Dekker
Concentration in Management

Joseph Bruce Discher
Concentration in Management

Mark S. Dittberner
with distinction

Angelo Ferro
with high distinction

Ramzi Georges
Concentration in Management

L. Douglas Green

Russell Jordan

J. Mario Lalonde

* Vittorio Lindia

Jennifer Erin Long

Marc Robert MacDonald
Concentration in Management

Carol Frances Miller

Uyen Nguyen

Kieron James O'Gorman

Johnny J. H. Ooi

Dwayne E. G. Reid

Eleanor Riordon

James Harold Alfred Rudd
with distinction

Wayne L. Simpson

Mariusz Stankiewicz
Concentration in Management

* Alireza Tabrizi

Phat Tran

Jeffrey James Waal

Charlene Anne Wagner

Michael D. Walters

COMPUTER SYSTEMS

Rajeev K. Bector
with high distinction

Darren Frank Bessette

* Christopher William Bright

Vinothini Catherasoo

Tarek El Gillani
with high distinction

Jason David Fraser
with distinction

Michael James Garvin

Gregory George Goddard

Matthew David Grierson

Angelica Grace Emelie Kasvand

Richard W. Kendall

Vanier Kethi-Reddy

Chi Kin Lee

Ho Yin Lee

Hon Lap Conrad Lee

Cleo Kam Kwan Li
with distinction

Bryan Douglas Lowe

Peter Maly
with high distinction

Daniel C. Moloughney

C. K. Ivan Ng

Sebastian Niewiadomski

Thomas Reid Phillips
with distinction

Jeevarajah Ponnampalam
with distinction

David Michael Reid

Faisal Shad
with high distinction

Fahim Asrar Sheikh
with high distinction

Kin Yu Kenny Siu

Andre Chi-Lang Tang

ELECTRICAL

Nanthaseelan Aiyadurai

Karim B. G. Alibhai

Abdullah Almalki

Eric C. W. Au

Bishakha Basuroy
Concentration in Management

Mike Berenshteyn

Gregory Wilbert Bornhorst

William Joseph Burke

Kieu Thanh Cao

Greg Carter

Branislav Ćenanović

Ravi Chandar

Teferi Embaye

Celso Rodrigues Faia

Rashid Abdi Farah

Natalie Ann Gagnon

Dharmesh Ghayal
with distinction

Reginald Edmund Grayston
with high distinction

Suet Yee Ho

Andrew C. R. Howell

John Jackson

Reza Javan-bakht

Roni Khazaka
with high distinction

Neil Anthony Lefebvre
with distinction

Treena Lewis
with distinction

Gwenda Marie Lindhorst
B.Sc.(Toronto), B.Ed.(Toronto)
with distinction

Nicola Longo

Karen R. McLane

José Gabriel Moniz

Guy Michel Morin
B.A.Sc.(Ottawa)
with high distinction

Jason P. Orrell

Stanislaw Ozorowski

Krishnan Parameswaran
with high distinction

Steven Bruce Pringle
with distinction

Brian David Robar
with distinction

Imad Samhat

Walter Shimoon

Steven Andrew Smith

Caroline S. Stone

Sandor Martin Szabo
B.Sc.(Western)
with high distinction

Wing Sing Tam
with distinction

Marianne Toman

Sylvia Terry Wang

James Wareberg

Alistair S. Willock

Jane Wong

Shek Fai Wong
Concentration in Management
with distinction

Yalmez M. A. Yazaw
with distinction

Andrew Lawrence Yeaton

Hiu Hung Stephen Yep

Lewis Zalany

MECHANICAL

Gregory Lorne Barber

Marc Roland Bédard

Chafik M. Bentchikou

Jacques Bourque
Concentration in Management

Mark Brookman
Concentration in Computer-Integrated Manufacturing
with distinction

Jennifer Lynn Burnham

Douglas A. Carnegie
Concentration in Management

Michael Scott Carter
with distinction

*** Barnett Bok Young Chai**

Yeung Shai Chan
Concentration in Computer-Integrated Manufacturing
with distinction

Paula Jennifer Chinkiwsky

Ivan Christopher Chomiak

Randal John Clark
with high distinction

Sandro Lino Di Bacco

Steven Michael Drennan

David Christopher Dudzinski
Concentration in Management

David Kristopher Ellis
with distinction

*** Richard Alan Foster**

Michel Konrad Francoeur

*** Farrokh Haddadian**

Michael Kenneth Harris

Michael James Hewitt
Concentration in Management

Magdalena Iglewski

Todd Ian Langstaff

Shui-Pun Li
Concentration in Computer-Integrated Manufacturing

Dimitry Lissow
with distinction

*** Thomas Scott MacLean**
Concentration in Management

Wayne Mah

Paul A. Markey
Concentration in Computer-Integrated Manufacturing

Christopher John Marsh

Ashley Gordon McColgan
with high distinction

José Manuel Mosquera Perez

Arek Nasiorowski

Sandeep Panesar

Simon Pianarosa
Concentration in Management

Karoline Jane Scott
Concentration in Management

Jacqueline Simpson

Richard J. Spirk

Quay Cam Thai

Hung Tieu
Concentration in Computer-Integrated Manufacturing

Chi Kin Tong

Peter V. Vukovic

Joel C. Weisz

Bachelor of Architecture

(Presented by Associate Professor J. Benjamin Gianni, Director of the School of Architecture)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Antonio Baglione
with distinction

*** Ghislain Belanger**
B.A.(Quebec)
with distinction

Andrew Voldemar Bernaus
B.A. (McGill)

Guy Eric Bisaillon

Timothy George Castle
with distinction

Dorian Chau
with distinction

Brian Clark

Magnus Pascoe Clarke

Michael John Conner

Dino Tony Paulo De Benedetti

Dino Emanuele Di Vita

Gabriel Domingos Doucet Donida
with distinction

Robert J. Dyson
with distinction

Suzanne Marie Evans
with distinction

Lyle David Ewashen
with high distinction

Lester Eric Ferdinand
with distinction

David Guy Fremlin
with distinction

Robert Allan Gascho

David Griffin
with distinction

Lisa Marie Hill
with high distinction

Lan Ying Ip
with distinction

John Kanakis
B.A. (Toronto)

Mark Keliar

Richard George Kemp

Monica A. Kusatz-McConkey
with distinction

Michael Bryan Ladyk
with distinction

Sandro Mancini
with distinction

Sanjit Manku
with high distinction

Richard David Martin
with distinction

Sean McCormick

Uzma Mirza
with high distinction

Pamela Ann Nelson

Phong Huy Nguyen

Shauna Leah Noyes
with distinction

Loris Ognibene
with distinction

Diana Catharine Payne

Jason Nolan Philippe
with distinction

Marc André Plourde

Diptee Husna Rahman

Shuvra Husna Rahman

Bonny Riedel
with distinction

Ashley Roche

Gregory Ross

Tariq Sami
with distinction

Michael Scott Schumacher

Lisa Thomas
with distinction

Kee Shui Tin Tsin Fong
with distinction

Sabine Toussaint
with distinction

Peter Malcolm Marinus Wildeboer
with distinction

Calvin Michael Wong
with distinction

David Courtenay Wood
B.Sc. (Trent)
with distinction

Andrew Zelmer

Bachelor of Industrial Design

(Presented by Assistant Professor Martien de Leeuw, Director of the School of Industrial Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Pierre Roland Archambault
B. Interior Design (Manitoba)
with distinction

Daniel Boivin
with high distinction

Jonathan Edward Buss
with distinction

Ian Cameron

Raymond Canton
with distinction

Chris Cheung
with distinction

Amir Farshid

Robert Soong Nien Hsu

Marie-Pierre Hudon-Fecteau
with distinction

David Burkhard Kiesekamp
with high distinction

Linda Kruus
with distinction

Danny Wai Min Lee

François Mathieu
B.A. (Quebec)
with high distinction

J. Michael Menzies

Chris John Nichol

Michael C. Plamondon
with distinction

Andrée Isabelle Proulx
B.A. (Montreal)
with high distinction

Andrew R. Schoenherr
with high distinction

* Marisol Simard
with high distinction

Jeffrey William Louis Sobocan
with high distinction

Brandon Jack-Ken Tam
with distinction

James Zdralek
with distinction

The following degrees were approved by Senate after publication of the 1994 Fall Convocation program.

Master of Arts

Marc Gregory Paradis
B.A. (Mount Allison)
French
Transcription et étude d'une version en brayon de "L'Oiseau Phillippe" conte-type 301A

Gordana Eljdupovic-Guzina
B.A., (Belgrade, Yugoslavia)
Psychology
Alcoholism, Family Patterns and Personal Projects: A Critique of the 'High Risk' Research Strategy

Bachelor of Arts (with Honours)

Lisa D. Camelon
Honours in Political Science

Julian Alexander Halton
Honours in Political Science

Robert James Kennedy
High Honours in Political Science

Arthur Edgar Pittman
Honours in Law

Idil Salah
Honours in Sociology

Bachelor of Arts

Amir Akhavan-Sarraf
Sociology/Anthropology

Marcia Lorraine Banfield
Law

Sarah-Jane Chilton
Law
Concentration in Criminology and Criminal Justice

Eusis Dougan-McKenzie
Political Science

Sarah Elizabeth Funnell
Sociology/Anthropology

Deborah Ann Fyfe
Psychology and Sociology/Anthropology

Umberto Lucio Biaggio Giustiniani
Economics

Christine Cailin Graham
Psychology

Victor J. Hammill
Economics

Susan Dolores Jedrzejek
Political Science

Douglas Wayne Knapp
History

Chi Wai Isaac Lam
Economics

Peter Walsworth
Geography

Bachelor of Science

Karl Parato
Biochemistry

Medallists in the Graduating Class

The Governor General's Medal–Bachelor's Level
Awarded annually to the student standing at the head of the graduating class at the bachelor's level.
Donor: His Excellency the Governor General of Canada

Katherine Emma Smith
Honours Mathematics

The Chancellor's Medal
Awarded annually in the name of the Chancellor of the University to a graduating student of outstanding academic achievement.

Karla Leanne Thorpe
Commerce

The President's Medal
Awarded annually in the name of the President of the University to the student with the highest standing in a pass program of studies.

Inger Jette Skeaff
German

University Medal for Outstanding Graduate Work–Ph.D. Level
Awarded, when merited, for outstanding graduate work at the doctoral level.

Victor Charles Aitken
Electrical Engineering

University Medal for Outstanding Graduate Work–Master's Level
Awarded, when merited, for outstanding graduate work at the master's level.

Eleanor Mary Kennedy
German

University Medals (Undergraduate)
Awarded annually, when merited, to the graduating students standing highest in interfaculty studies, arts, social sciences, science, engineering, architecture, commerce, computer science, industrial design, journalism, music, public administration, and social work.

University Medal in Interfaculty Studies
Corey Patricia Anne Howse
Honours Environmental Studies

University Medal in Arts
Gordon A. Deinstadt
Honours Classical Civilization

University Medal in Social Sciences
Leanne Nicole Fisher
Honours Law
Concentration in Criminology and Criminal Justice

University Medal in Science
Gordon James Chan
Honours Physics

University Medal in Computer Science
Daisy Suk Chee Tan

University Medal in Commerce
John Fraser Ross

University Medal in Journalism
Andrea Lynn Hopkins
Honours Journalism and Political Science

University Medal in Music
Benjamin Bolden

University Medal in Social Work
Rhonda Kim Geddes

University Medal in Engineering
Roni Khazaka
Electrical Engineering

Lieutenant Governor's Medal in Architecture
Awarded annually, when merited, to the student standing at the head of the graduating class in architecture

Lyle David Ewashen

University Medal in Industrial Design
David Burkhard Kiesekamp

Senate Medals
Awarded, when merited, to graduating students of outstanding academic achievement.

Doctoral Level
Raul San Martin
Electrical Engineering

Keith Allan Coulter
Political Science

Timothy Pychyl
Psychology

Master's Level
Mathias Wuhr
Aerospace Engineering

Gordana Eljdupovic-Guzina
Psychology

Sandra Jayne Dyck
Canadian Art History

Undergraduate Level
Faisal Shad
Computer Systems Engineering

Krishnan Parameswaran
Electrical Engineering

Steven Andrew Czepiela
Aerospace Engineering

Simon Dir Ching Kow
Honours Political Science

Rosemary Ellen Daniels
Honours English

Rowaida Zbib
Honours Computer Science and Mathematics

Veronica Joan McCarthy
Honours Psychology

Maud Beauchesne
Honours Russian

Camille V. Husseini
Psychology and Sociology and Anthropology

Shaorun Li
Computer Science

Jennifer Ann Quaile
Honours Sociology and Women's Studies

E. Jayne Elliott
Honours History and Women's Studies

Adam Rasheed
Aerospace Engineering

Andrea Claire Johnson
Honours Political Science

William L.M. Hui
Computer Science

Elisha Ram
Commerce

Sarah Rosolen
Honours Environmental Science

Celine Margaret Mulhern
Honours French and Political Science

Fahim Asrar Sheikh
Computer Systems Engineering

Nadine Marie Robinson
Commerce

Janet L. Crupi
Sociology and Anthropology
Concentration in Criminology and Criminal Justice

Walter Allan Mycroft
Aerospace Engineering

Tarek El Gillani
Computer Systems Engineering

Anshoomala Chaturvedi
Honours History and Political Science

Michel E. Crichton
Civil Engineering

Donna Lee Coghill
Sociology and Anthropology

Janine Marie Przysiezny
Aerospace Engineering

Andrew Duncan Hackston
Computer Science

Noreen Laura Phoebe Sharpe
Honours B.Sc. Psychology

Pierre Daniel Beaulne
Honours Physics

Elissa Anne Golberg
Honours History and Political Science

Rajeev K. Bector
Computer Systems Engineering

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